

Factory-Verified Replacement

MERYDOM VE160B00

Certified for interchange with La Leonessa VE160B00. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL

VE160B00

SERIES

2SE Series

OVERALL OD

1,604 mm

OVERALL HEIGHT

144 mm

REFERENCE

La Leonessa VE160B00

STRUCTURE

Rolamento de esferas de duas  
carreiras

OVERALL ID

1,208 mm

GEAR

Engrenagem externa

Published Technical Drawing



la-leonessa-2se-drawing.webp



## Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| MERYDOM CERTIFIED PRODUCT            |                                        |
|--------------------------------------|----------------------------------------|
| Product brand                        | MERYDOM                                |
| MERYDOM model                        | VE160B00                               |
| Certified interchangeable with       | La Leonessa VE160B00                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | GG6P2U7YMKZZLH223VJVHSYPH4             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | La Leonessa                            |
| Reference series                     | 2SE Series                             |
| Reference model                      | VE160B00                               |
| Bearing structure                    | Rolamento de esferas de duas carreiras |
| Gear arrangement                     | Engrenagem externa                     |
| DIMENSION                            |                                        |
| Mass (P)                             | 698 kg                                 |
| Overall outside diameter (De)        | 1.604 mm                               |
| Overall inside diameter (Di)         | 1.208 mm                               |

## Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| DIMENSION (CONTINUED)                         |            |
|-----------------------------------------------|------------|
| Overall height (H)                            | 144 mm     |
| Dim Dr (Dr)                                   | 1.389,5 mm |
| MOUNTING                                      |            |
| Outer ring bolt circle (Ie)                   | 1.500 mm   |
| Outer ring mounting-hole count (ne)           | 48         |
| Outer ring mounting-hole specification (Me)   | M27        |
| Inner ring bolt circle (Ii)                   | 1.280 mm   |
| Inner ring mounting-hole count (ni)           | 48         |
| Inner ring mounting-hole specification (Mi)   | M27        |
| GEAR                                          |            |
| Gear module (m)                               | 10 mm      |
| Gear tooth count (z)                          | 158        |
| Addendum modification product $x^*m$ (xm)     | 2,5 mm     |
| Liebherr catalogue gear dimension $k^*m$ (km) | 0,5 mm     |
| Gear pitch diameter (Dp)                      | 1.585 mm   |
| Gear Tooth Height (Hd)                        | 90 mm      |
| PERFORMANCE                                   |            |
| Basic static axial load rating (C0a)          | 7.930 kN   |
| Static tilting moment rating (M0r)            | 2.500 kNm  |
| Normal tooth force (Fnom)                     | 103 kN     |

# Complete Product Data

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| PERFORMANCE (CONTINUED)      |                                                                |
|------------------------------|----------------------------------------------------------------|
| Maximum tooth force (Fmax)   | 206 kN                                                         |
| MISCELLANEOUS                |                                                                |
| Pattern (Schema)             | B                                                              |
| PERFORMANCE RATINGS          |                                                                |
| Rating Axial Static          | 7.930 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Tilting Moment Static | 2.500 kNm   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Normal    | 103 kN   Not simultaneous with other listed dynamic ratings    |
| Rating Tooth Force Max       | 206 kN   Not simultaneous with other listed dynamic ratings    |
| MOUNTING INTERFACES          |                                                                |
| Outer ring mounting          | 48 holes - 48; M27                                             |
| Inner ring mounting          | 48 holes - 48; M27                                             |
| GEAR INTERFACE               |                                                                |
| Pitch system                 | module                                                         |
| Module reference             | 10 mm                                                          |
| Number of teeth              | 158                                                            |
| SOURCE TRACEABILITY          |                                                                |
| Source document code         | LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017                         |
| Source file                  | SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf                        |
| PDF page                     | 12                                                             |
| Printed page                 | 12                                                             |
| Source language              | EN                                                             |

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY (CONTINUED) |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Original unit system            | Metric                                                                                                                |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                       |
| Load Curve Chart                | la-leonessa-2se-static_load_curve.webp   SHA-256:<br>0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1 |
| Outline Drawing                 | la-leonessa-2se-drawing.webp   SHA-256:<br>9def12f376fbd9bc222f66ab0503412bd5a475fdfe624e4dbfe0ca549ea4d61f           |

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



la-leonessa-2se-static\_load\_curve.webp | SHA-256:  
0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

## Source and Verification Traceability

### PUBLIC RECORD UID

**GG6P2U7YMKZZLH223VJVHSEYPH4**

### SOURCE FILE

**SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf**

### VERIFICATION

**Level 3 - MERYDOM Engineering  
Verified**

### SOURCE DOCUMENT

**LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017**

### SOURCE LOCATION

**PDF page 12 | Printed page 12**

### REVIEWED BY

**MERYDOM Engineering Department**

## Engineering Confirmation Boundary

- 1 Confirm the exact model designation and all installation-envelope dimensions.
- 2 Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3 Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4 Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5 Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6 Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

### Request Price, Delivery and Final Engineering Confirmation

Email: [jovi@merydom.com](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/la-leonessa/ve160b00/>

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